

In the Claims

Listing of the Claims

This listing of claims will replace all prior versions, and listings, of the claims in the application.

1. (Original) Apparatus for moving particles entrained in a first fluid to a second fluid, comprising a conduit, means providing for contacting laminar flow of each fluid within the conduit and means capable of generating a standing sound wave having a pressure node disposed within the conduit.
2. (Original) Apparatus according to Claim 1, in which the means providing for contacting laminar flow minimise mixing between the two fluids.
3. (Currently Amended) Apparatus according to Claim 1 ~~or Claim 2~~, in which the means for arranging contacting laminar flow comprise respective inlet and outlet means for each fluid in communication with the conduit.
4. (Original) Apparatus according to Claim 3, in which the respective inlet and outlet means are orthogonal to each other.
5. (Currently Amended) Apparatus according to ~~any preceding Claim 1~~, in which the pressure node is centrally disposed along the longitudinal length of the conduit.
6. (Currently Amended) Apparatus according to ~~any preceding Claim 1~~, in which the means capable of generating the standing sound wave comprise a first wall of the conduit adapted to generate and transmit a sound wave and a second, opposite wall adapted to reflect the generated sound wave.

7. (Original) Apparatus according to Claim 6, in which the first wall of the conduit comprises a piezoceramic material.
8. (Original) Apparatus according to Claim 7, in which the piezoceramic material is associated with an alternating potential source.
9. (Original) A method of moving particles from in a first fluid to a second fluid, comprising the steps of i) providing for contacting laminar flow of each fluid within a conduit having means capable of generating a standing sound wave and ii) generating a standing sound wave having a pressure node within the conduit..
10. (Original) A method of washing particles according to Claim 9.
11. (Original) A method of mixing samples according to Claim 9.
12. (Cancelled)
13. (Cancelled)